

[54] **HIGH SPEED LASER MARKING SYSTEM**

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[58] Field of Search **219/121.68, 121.69, 219/121.74, 121.73; 346/76 L; 354/12, 15; 355/11**

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[57] **ABSTRACT**

A high speed laser marking system (32) is disclosed which includes a laser (21) for generating a pulsed beam (22) of electromagnetic energy and reflective symbol generating means (41, 42) for forming the image of a symbol on a target (30). The symbol generating means includes an element (42) for reflecting the beam to form the image of the symbol on the target (30). The reflective element (42) includes mirrors for reflecting a plurality of symbols. In a specific embodiment, the invention includes a wheel (41) on which a plurality of mirrored elements (42) are disposed. The wheel (41) is driven under control of a conventional control system to provide for the irradiation of a selected symbol. In a more specific embodiment, the invention includes an ellipsoidal mirror (45) to direct the reflected radiation to the target. A further more specific embodiment of the invention includes reflective holographic elements designed to reflect images of selected symbols to the target.

13 Claims, 2 Drawing Sheets

